

## Forensic Science | 7.2 Barrel and Bullet Striations Lab

Which brother(s) fired bullets at the crime scene? Put an X in the box to indicate a match was found between an Evidence Bullet and the bullet test fired from a brother's handgun. This information will help you answer the questions that follow.

(5 points)

	Bullet Fired from Barry's Gun	Bullet Fired from Bradley's Gun	Bullet Fired from Brian's Gun	Bullet Fired from Brandon's Gun	Bullet Fired from Billy-Bob's Gun
Bullet Evidence #1			X		
Bullet Evidence #2		X			
Bullet Evidence #3					X
Bullet Evidence #4			X		
Bullet Evidence #5		X			

1. Complete the following information to summarize your analysis of the "Mystery of the Sextuplet Murder".

- o Brother Barry's gun fired Bullet Evidence #(s) (1 point) **none**
- o Brother Bradley's gun fired Bullet Evidence #(s) (1 point) **2 and 5**
- o Brother Brian's gun fired Bullet Evidence #(s) (1 point) **1 and 4**
- o Brother Brandon's gun fired Bullet Evidence #(s) (1 point) **none**
- o Brother Billy-Bob's gun fired Bullet Evidence #(s) (1 point) **3**

2. Which brother is likely responsible for the murder of Bobby Barrister? (1 point) **Brian because number 4 hit bobby and it matches his gun**

3. Which brother(s) shot the living room wall? (1 points)**Brian and Bradley**
4. All the brothers used the same make and model of handgun. What FOUR General Rifling Characteristics (GRC) would you need to obtain from the bullets to identify the manufacturer of the guns that the brothers owned? (4 points)  
**Caliber, number of lands and grooves, Direction of twist of rifling, width of lands and grooves**
5. Your ability to solve this crime proves you are on your way to becoming a ballistics expert. Explain, in your own words, what a ballistic expert does. (2 points)  
**A ballistics expert studies how bullets are affected by the outside environment to determine things about the gun it was fired from.**
6. List TWO things you, a ballistics expert, would observe on a bullet that was found at a crime scene - then describe what each thing on your list could help you discover. (2 points)

I would observe:	To help me discover:
<b>Rifling patterns</b>	<b>Which gun was used</b>
<b>Caliber</b>	<b>Which gun was used</b>